

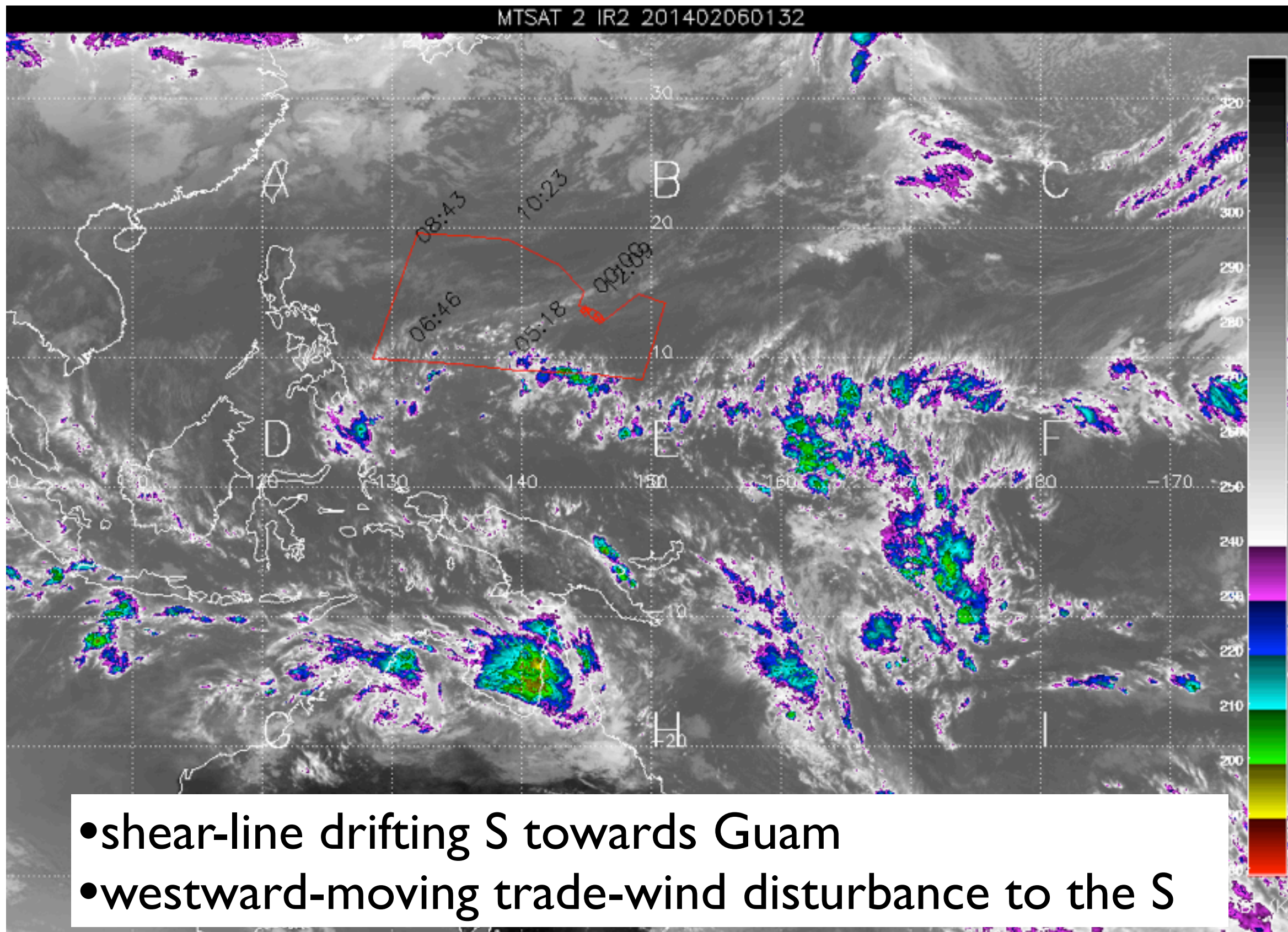
metbrief: 2014-02-06

(next planned flight 2014-02-07 Fri)

- shear line over Guam today, drifting SE of Guam by Friday AM
- trade-wind disturbance S of 12N moving westward (cloud top 45-50 kft) -- not of concern for takeoff and landing, but watch during flight
- **02-07 Friday:** similar conditions as today
 - moist layer up to 700 mb (8500 ft) Thu PM through Fri AM
 - 4AM: scattered to broken clouds (base 1900 ft), scattered showers, 10-15 knot NE winds
 - 10AM: drier (decreased low-level 700-850mb moisture), scattered clouds (base 1500 ft), 15-20 knot NE winds
 - 10PM: few clouds, 10-15 knot NE winds
 - decreasing min Ts over Guam
- **02-08 Saturday:** drier (shallower moist layer) than Friday
 - 4AM: scattered to broken clouds (base 1900 ft), moist layer up to 800 mb (6500 ft), isolated showers, 10-15 knot NE winds
 - 10AM: drier (decreased low-level 850mb moisture, very dry above), few clouds, 10-15 knot ENE winds
 - 10PM: few clouds, 10 knot ENE winds
 - weak trade-wind disturbance S of Guam
- Outlook
 - good flying conditions (dry, 10-15 knot NE winds) through **Sunday** and **Monday**
 - long-term forecast of decreasing 100mb Ts near Guam starting next Wed

‘current’ condition:

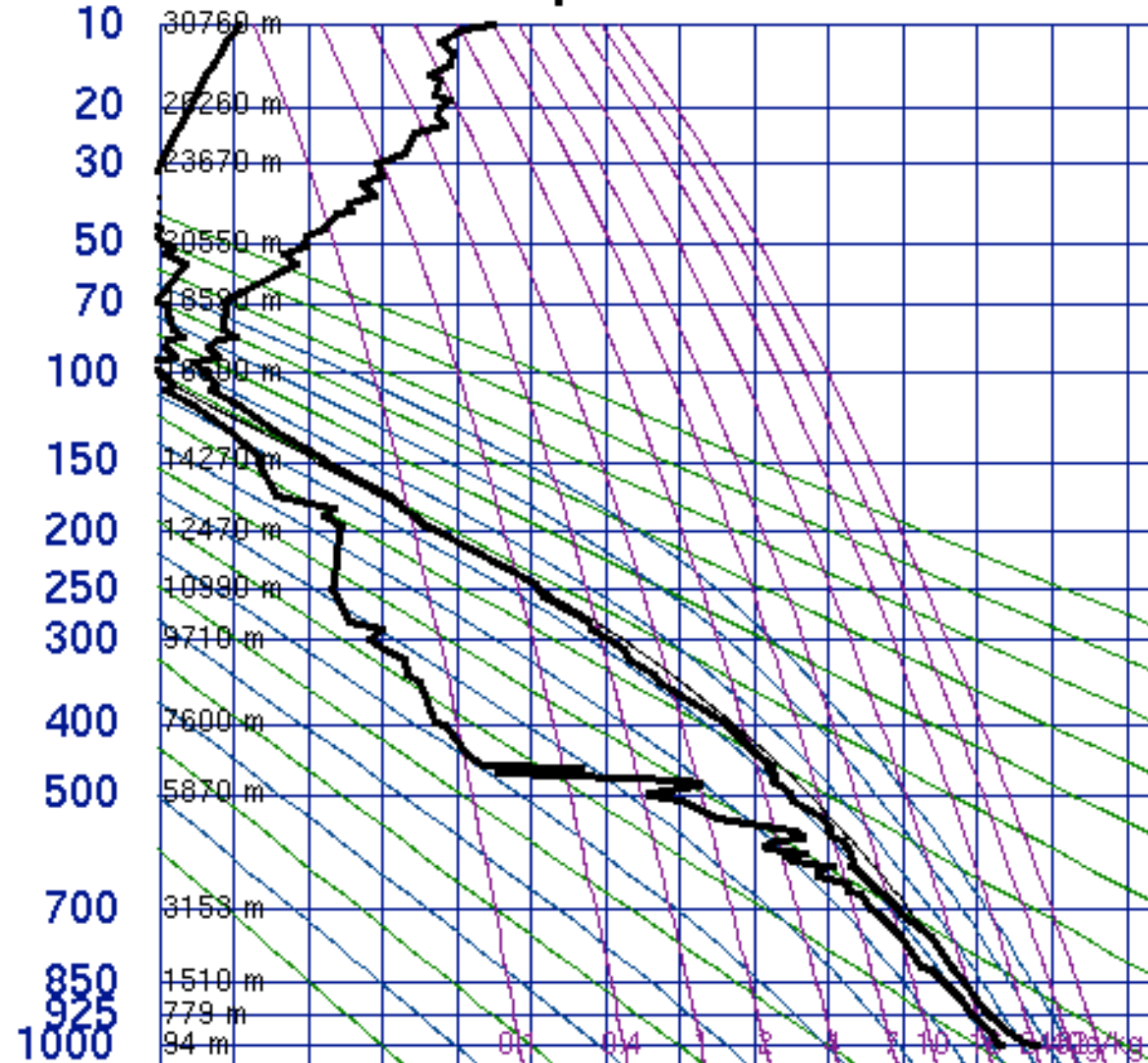
satellite IR imagery on 2014-02-06, ~01 UTC
(02-07 Thu, ~11 AM)



‘current’ condition:

soundings on 2014-02-06, 00UTC
(02-06 Thu, 10AM)

91212 PGAC Guam Intl Arpt



SLAT	13.48
SLOE	144.79
SELV	76.00
SHOW	0.04
LIFT	-2.51
LFTV	-3.37
SWET	206.6
KINX	35.20
CTOT	20.40
VTOT	23.30
TOTL	43.70
CAPE	637.6
CAPV	820.9
CINS	-12.1
CINV	-4.02
EQLV	181.9
EQTV	181.9
LFCT	829.9
LFCV	905.6
BRCH	160.9
BRCV	207.1
LCLT	294.4
LCLP	933.8
MLTH	300.2
MLMR	17.38
THCK	5776.
PWAT	51.08

•cold-point tropopause T
-85.3 degC (187.7 K) at
16.8 km (55.4 kft)

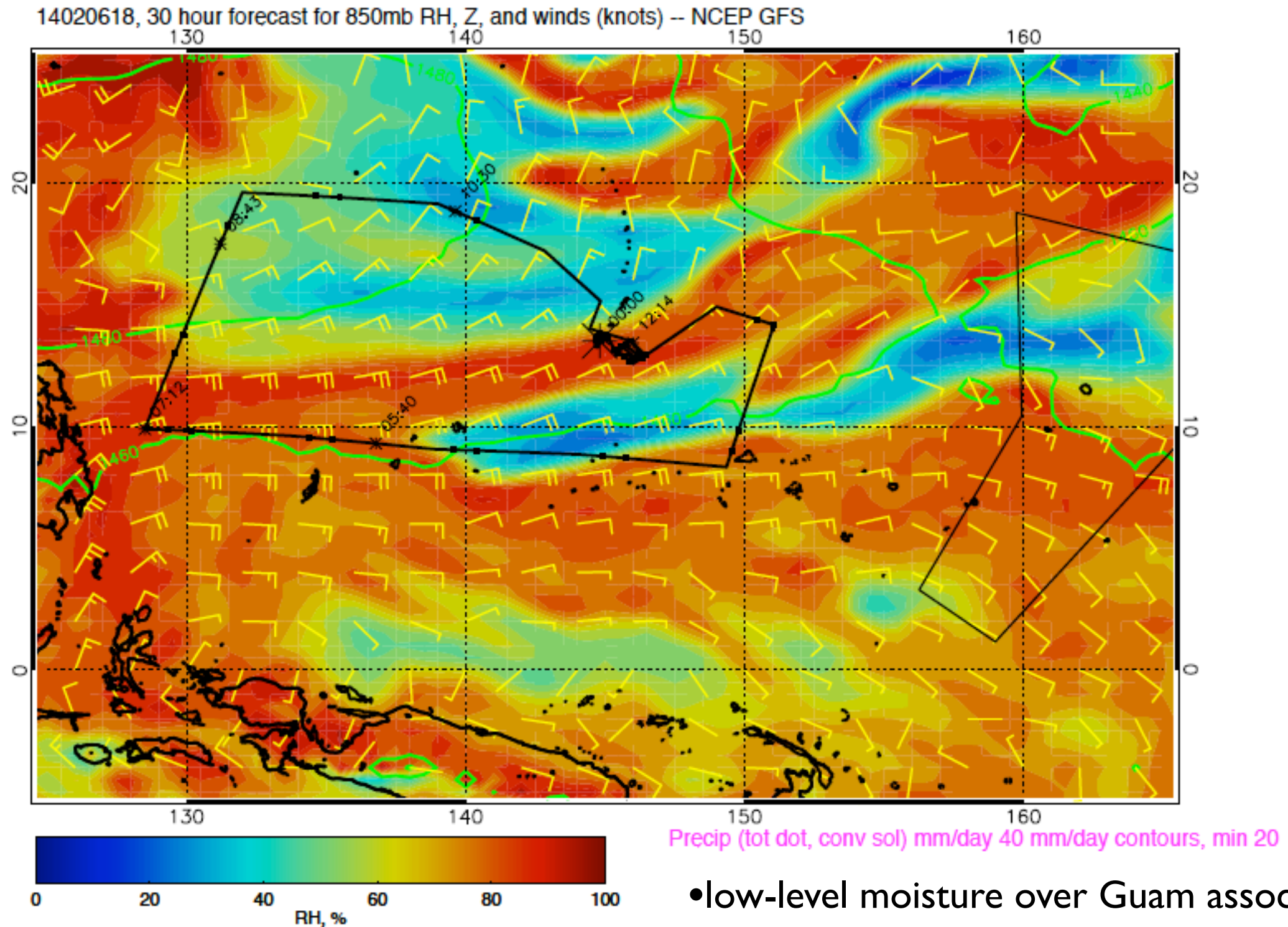
•moist layer up to 10 kft
(through Fri)

00Z 06 Feb 2014

University of Wyoming

‘Fri take-off’ condition (GFS):

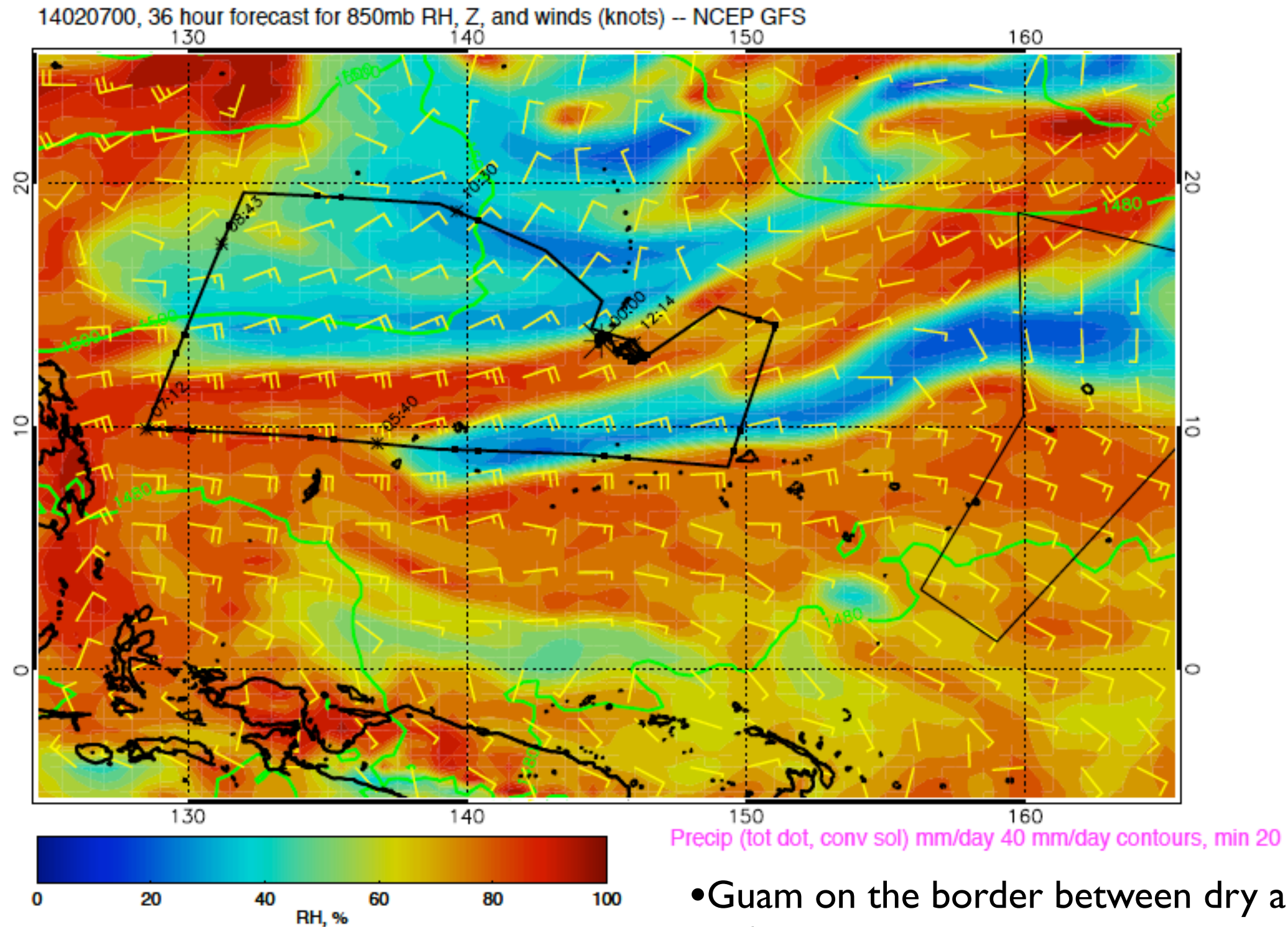
850mb RH & winds on 2014-02-06, 18UTC
(02-07 Fri, 04AM)



- low-level moisture over Guam associated with shear line
- upward motion (instability) at 700mb

‘Fri take-off’ condition (GFS):

850mb RH & winds on 2014-02-07, 00UTC
(02-07 Fri, 10AM)



- Guam on the border between dry and moist air (similar condition through next Mon)
- dry above

‘Fri mid-flight’ condition (GFS):
high clouds & 150mb winds on 2014-02-07, 06UTC
(02-07 Fri, 04PM)

